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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

<b>TRANSMITTAL FORM</b> (to be used for all correspondence after initial filing)	Application Number	09/839,254
	Filing Date	4-20-2001
	First Named Inventor	Hilliard, Donald B.
	Group Art Unit	GAU 2828
	Examiner Name	Gioacchino Inzirillo
	Attorney Docket Number	
Total Number of Pages in This Submission		

ENCLOSURES (check all that apply)		
<input checked="" type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Assignment Papers (for an Application)	<input type="checkbox"/> After Allowance Communication to Group
<input checked="" type="checkbox"/> Fee Attached	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences
<input checked="" type="checkbox"/> Amendment / Reply	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input checked="" type="checkbox"/> Petition	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/declaration(s)	<input type="checkbox"/> Petition to Convert to a Provisional Application	<input type="checkbox"/> Status Letter
<input checked="" type="checkbox"/> Extension of Time Request	<input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address	<input checked="" type="checkbox"/> Other Enclosure(s) (please identify below):
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Terminal Disclaimer	cited references for the response; MARKED-UP and CLEAN copies of the specification
<input type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> Request for Refund	
<input type="checkbox"/> Certified Copy of Priority Document(s)	<input type="checkbox"/> CD, Number of CD(s) _____	
<input type="checkbox"/> Response to Missing Parts/ Incomplete Application	Remarks	
<input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<b>"EXPRESS MAIL POST OFFICE TO ADDRESSEE" service, mailing label number: EU 982014520 US, under 37 CFR 1.10</b>	

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm or Individual name	Donald Bennett Hilliard, Appt. Pro Se
Signature	
Date	4/7/03

CERTIFICATE OF MAILING	
I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, Washington, DC 20231 on this date: 4/7/03	
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Date	4/7/03

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# 1<sup>ST</sup> OFFICE ACTION



## UNITED STATES PATENT AND TRADEMARK OFFICE

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United States Patent and Trademark Office  
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/839,254	04/20/2001	Donald Bennett Hilliard	DBH004	1542

7590 10/07/2002  
Donald B. Hilliard  
3050 North Fontana  
Tucson, AZ 85705

EXAMINER

INZIRILLO, GIOACCHINO

ART UNIT	PAPER NUMBER
2828	

DATE MAILED: 10/07/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

# Office Action Summary

Applicati n N .

09/839,254

Applicant(s)

HILLIARD, DONALD BENNETT

Examiner

Gioacchino Inzirillo

Art Unit

2828

- The MAILING DATE of this communication appears on the cover sheet with the correspondence address -

## Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-21 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-21 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_ is/are ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_ is a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

## Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☒ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

## Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing R view (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 2.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other:

### DETAILED ACTION

#### *Claim Rejections - 35 USC § 112*

- ① Claims 3 and 5 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claim 3 recites the limitation that additional layers are deposited. It cannot be understood from the context of the claim where they are deposited. This claim is indefinite. *no structure*
- Claim 5 recites the limitation of a material with an optical absorption cut-off. It cannot be determined from the context of the claim where the material is located in relation to the cavity. *no structure*
- This claim is indefinite.

*look @  
working  
spec.*

#### *Claim Rejections - 35 USC § 103*

- ② The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims ① 3 - 5, 8 - 11, 13, 17, ① 8, 19 and ② 1 are rejected under 35 U.S.C. 103(a) as being unpatentable over Baer US 4,829,537 (herein after known as Baer) in view of Emmett US 4,925,259 (herein after known as Emmett).

- ③ Regarding claims ① 4, 17, ① 8, 19 and ② 1 in Baer, column 2 line 67 through column 3 line 14, there is described how the laser cavity of the Baer invention is formed. Fig. 1 of Baer is the

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corresponding figure to this description, and shows pump radiation being coupled through the surface of revolution. The <sup>(A)</sup>spherical gain medium 12 has coating 14 <sup>TIR?</sup> applied to its entire surface.

This combination of gain medium and reflector forms the resonator cavity 18. Being a sphere, the cavity is inherently a surface of revolution. It is also inherent that the opposed sides of the spherical cavity define opposing optically reflecting surfaces. Column 5, lines 13 – 23, tells that the Baer invention can be made to operate in such a way as to allow <sup>(B)</sup>preferred modes to be emitted. This preferred mode operation results in a single longitudinal mode, single frequency

output. Baer fails to teach a multilayer dielectric reflector. However, Emmett teaches such a reflector in his patent. Fig. 2 of Emmett shows discloses the invention of an alternating layer structure built atop a substrate, where each layer has either one of two indices of refraction. The invention is generally described in column 1, line 67, through column 2, line 2, as a multilayer dielectric coating for optical elements, which is designed to have a high damage threshold. The invention is further described in column 2, lines 36 – 39, as a multilayer dielectric coating having from 100 to 100,000 or more layers. The at least 120 layers recited in claim 21 is encompassed by the range of Emmett. Column 5, lines 25 – 26, of Emmett describe an embodiment where the difference in the indices of refraction is only 0.015, which is smaller than 0.2. Baer gives some

examples of the materials of which his coating could be made in column 5, lines 3 – 5. Amongst those listed is quartz. Emmett mentions the same material in column 4, line 40 of his patent. As one of ordinary skill in the art would know, <sup>(C)</sup>fused silica is quartz. Therefore, for all intents and purposes, <sup>(D)</sup>the isotropic coating 14 of Baer is, or could be, a multilayer dielectric coating. If it is not, however, a multilayer coating could still be used as the optical coating, since Baer tells us in column 2, line 68, that the coating is an isotropic coating, and places no further restrictions on

*define isotropic (same from different angles, yes, contradictory)*

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the coating. <sup>(F)</sup> Since the multilayer dielectric coating of Emmett is isotropic, it can be substituted for the coating of Baer. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Baer <sup>(G)</sup> with the multilayer dielectric coating as taught by Emmett.

(4) Regarding claims 3 and 5, column 2, lines 36 – 39, of Emmett describes 100 to 100,00 layers, which could be adapted for other purposes.

(5) Regarding claims, 8 – 11, these claims are intended use claims, and it has been held that a recitation with respect to the manner in which a claimed apparatus is intended to be employed does not differentiate the claimed apparatus from a prior art apparatus satisfying the claimed structural limitations, Ex Parte Masham, 2 USPQ F.2d 1647 (1987). change to structural claims

(6) Regarding claim 13, see column 4 lines 46 – 49 of Baer.

(7) Regarding claim 16, it is well known in the art, that with appropriate techniques a broadband spectrum emission can be narrowed, for any type of laser.

(8) Claims 6, 7, 14 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Baer in view of Emmett as applied to claims 1, 3 – 5, 8 – 11, 13, 17, 18, 19 and 21 above, and further in view of Greene US 4,945,547 (herein after known as Greene). Baer in view of Emmett teaches the invention as outlined in the rejection above, but fails to teach a discontinuous surface and

reflector. However, Greene teaches both in his patent. Fig. 1 of Greene shows discontinuous surface defined by the placing of the gain media 12, all of which have a coating reflector 20.

Furthermore, the central space in the cavity is free to hold another material, such as a structure or a reflector. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Baer in view of Emmett as taught by Greene. ?

*degrees of separation?*

- ⑨ Claim 2, 12 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Baer in view of Emmett as applied to claims 1, 3 - 5, 8 - 11, 13, 17, 18, 19 and 21 above, and further in view of Smith US 3,887,882 (herein after known as Smith). Baer in view of Emmett teaches the invention as outlined in the rejection above, but fails to teach discharge excitation of a gas laser medium. However, Smith teaches this in his patent, see Smith. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Baer in view of Emmett as taught by Smith.

***Prior Art***

- ⑩ The following US patent is being made of record, even though they were not relied upon in this Office Action, for being similar in subject matter, and may be relied upon in any future Office Actions: 4,651,034.



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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gioacchino Inzirillo whose telephone number is 703-305-1967. The examiner can normally be reached on M-F 8:30AM to 5:00 PM.

- (12) If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paul Ip can be reached on 703-308-3098. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-7722 for regular communications and 703-308-7721 for After Final communications.

***TC2800 RightFAX Telephone Numbers***

TC2800 Official Before-Final RightFAX - (703) 872-9318

TC2800 Official After-Final RightFAX - (703) 872-9319

TC2800 Customer Service RightFAX - (703) 872-9317

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

Gioacchino Inzirillo  
Examiner  
Art Unit 2828

*G.I.*  
September 30, 2002

*Paul Ip*  
PAUL IP  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2800

*(703) 746-9913*  
*(703) 746-4313*

# Notice of References Cited

Application/Control No.

09/839,254

Applicant(s)/Pat nt Under

Reexamination

HILLIARD, DONALD BENNETT

Examiner

Gioacchino Inzirillo

*p. 2*

Art Unit

2828

Page 1 of 1

## U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
	A	US-4829537	05-1989	Baer	372/66
	B	US-4925259	05-1990	Emmett	350/1.6
	C	US-3887882	06-1975	Smith	331/94.5
	D	US-4945547	07-1990	Greene	372/94
	E	US-4615034	09-1986	von Guten	372/99
	F	US-			
	G	US-			
	H	US-			
	I	US-			
	J	US-			
	K	US-			
	L	US-			
	M	US-			

## FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

## NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)				
	U					
	V					
	W					
	X					

\*A copy of this reference is not being furnished with this Office action. (See MPEP § 707.05(a).)  
Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.



12-15-03

2828

APPLICATION NUMBER : 09/839,254APPLICANT : DONALD BENNETT HILLIARDAPPLICATION TITLE : CIRCULAR LASER

## CERTIFICATE OF MAILING

I hereby certify that the items listed below are being deposited with the United States Postal Service utilizing the "EXPRESS MAIL POST OFFICE TO ADDRESSEE" service, mailing label number ER 507109289 VS under 37 CFR 1.10 in an envelope addressed to: Assistant Commissioner for Patents, Box Reconstruction-CP-4-6-C35, Washington, D.C. 20231, on the 12 day of DECEMBER, 2003.

Donald B. Hilliard

Enclosed are Reconstruction papers, under 37 CFR 1.251, for U.S. Patent Appl. Ser. Nr. 09/839,254 filed 4-20-2003, comprising a transmittal sheet, this certificate of mailing, and copies of:

☒ A statement by Applicant that the attached copies of correspondence, listed below, is a complete and accurate copy of applicant's record all correspondence between Office and applicant that took place after filing of the non-provisional application.

☒ First Office Action (mailed 10-07-2003) in prosecution of the application

☒ Fax of proposed draft claims to S.P.E. Paul Ip.

☒ Response (filed 4-07-2003) to the first Office Action, consisting of:

- Transmittal Form.
- Fee transmittal form.
- 26 sheets of the Response/Amendment.
- cited references of Response/Amendment.
- Petition for extension of time under 37 CFR 1.136(a).
- check for \$ 492 - ← cashed by USPTO; but not available
- marked and amended copies of specification.
- Itemized return postcard (stamped and returned by Office)



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<b>TRANSMITTAL FORM</b> (to be used for all correspondence after initial filing)	Application Number	09/839,254
	Filing Date	4-20-2001
	First Named Inventor	Hilliard, Donald B.
	Group Art Unit	GAU 2828
	Examiner Name	Gioacchino Inzirillo
Total Number of Pages in This Submission	Attorney Docket Number	

ENCLOSURES (check all that apply)		
<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment / Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/ Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Assignment Papers (for an Application) <input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____	<input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): Reconstruction papers pursuant to 37 CFR 1.251, for application
Remarks "EXPRESS MAIL POST OFFICE TO ADDRESSEE" service, mailing label number: ER 507109289 U.S. _____, under 37 CFR 1.10		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm or Individual name	Donald Bennett Hilliard, Appt. Pro Se
Signature	
Date	12/7/03

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#### STATEMENT BY APPLICANT

Applicant hereby states that the attached copies of correspondence, as listed in the Certificate of Mailing of the present correspondence, is a complete and accurate copy of applicant's record of all correspondence between Office and applicant that took place after filing of the non-provisional application, Ser. No 09/839,254.



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In re Application of:

DONALD HILLIARD

Application No.:

09/839,254

Filing Date:

4-20-01

Title:

CIRCULAR LASER

Direct to:

Box Reconstruction  
United States Patent and Trademark Office  
Washington, DC 20231

## NOTICE UNDER 37 CFR 1.251 - Pending Application

Statement (check the appropriate box):

☐ The copy submitted with this reply is a complete and accurate copy of applicant's record of all of the correspondence between the Office and the applicant for the above-identified application (except for U.S. patent documents), and applicant is not aware of any correspondence between the Office and applicant for the above-identified application that is not among applicant's records.

☒ The copy of the paper(s) listed in the notice under 37 CFR 1.251 is/are a complete and accurate copy of applicant's record of such paper(s).

☐ The papers produced by applicant are applicant's complete record of all of the correspondence between the Office and the applicant for the above-identified application (except for U.S. patent documents), and applicant is not aware of any correspondence between the Office and the applicant for the above-identified application that is not among applicant's records.

☐ Applicant does not possess any record of the correspondence between the Office and the applicant for the above-identified application.

12/07/03

Date

Donald Hilliard

Signature

DONALD HILLIARD

Typed or printed name

A copy of this notice should be returned with the reply.

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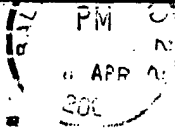
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TO 1<sup>ST</sup> O.A.

Response/Amendment A in Application of Donald B. Hilliard,  
Ser. No. 09/839,254 filed 4/20/2001,  
consisting of

- ☒ Transmittal Form.
- ☒ 26 sheets of the Response/Amendment.
- ☒ cited references of Response/Amendment.
- ☐ ~~a notarized affidavit.~~
- ☒ Petition for extension of time under 37 CFR 1.136(a).
- ☒ ~~U.S. Post Office money order/check~~ for \$ 492.
- ☒ marked and amended copies of specification.
- ☐ ~~marked and amended copies of the drawings.~~
- ☐ ~~new oath/declaration.~~

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Tucson, Arizona 85705

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